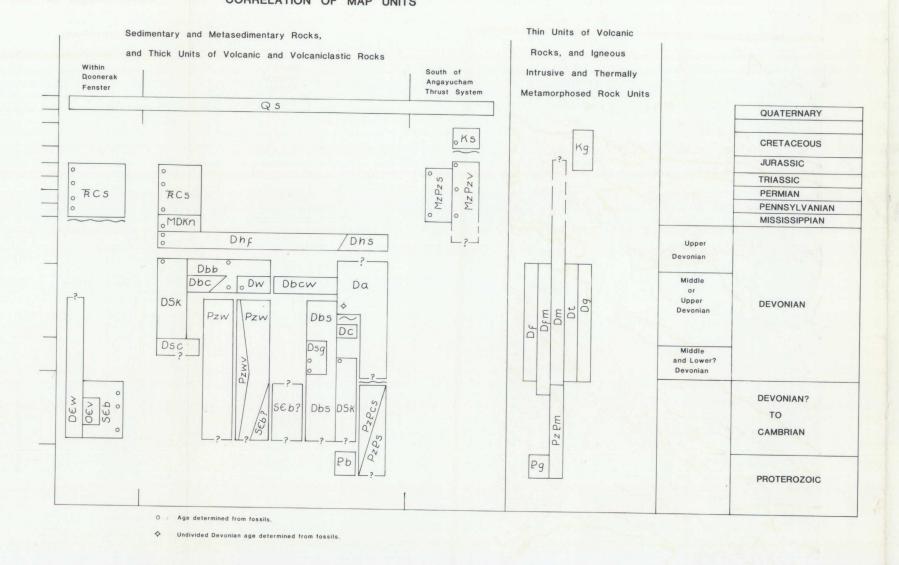
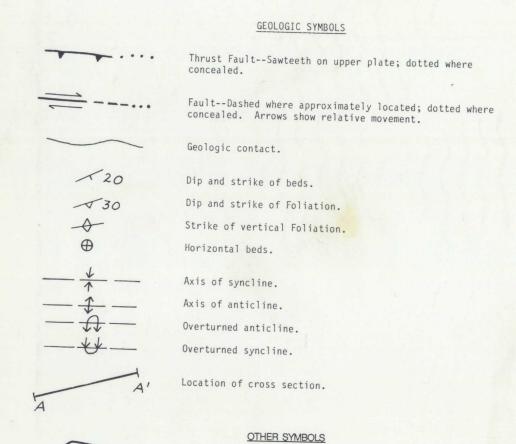
FAULT

CORRELATION OF MAP UNITS



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A

Stream basins and areas with gold placers (see text for description for each aphabetic or aphanumeric code).

The following description of a map units is an abbreviated version of one prepared by Dillon and others (1986):

QUATERNARY UNCONSOLIDATED DEPOSITS.

Qs SURFICAL--glacial, alluvial, colluvial, and landslide.

CRETACEOUS SEDIMENTARY ROCKS.

Ks NONMARINE AND MARINE SEDIMENTS--includes

MESOZOIC GRANITIC PLUTONIC ROCKS OF THE HODZANA HIGHLANDS.

conglomerates, sandstones, shale, siltstone, and coal.

Kg QUARTZ MONZONITE.

ROCKS WITH AT LEAST ONE REGIONAL METAMORPHIC FABRIC.

MzPzs METAGRAYWACKE AND PHYLLITE (Mississippian to Triassic)--also includes cherts and metagrabbro.

MzPzv MAFIC VOLCANIC ROCKS (Devonian to Lower Jurassic)--include pillow basalt, diabase, chert, and minor limestone.

SLIGHTY METAMORPHOSED SEDIMENTARY AND VOLCANIC ROCKS WITH TWO

REGIONAL METAMORPHIC FABRICS.

TrCs SEDIMENTARY ROCKS (Carboniferous through Upper Triassic)--includes black, red, and green shale and siltstone, calcareous siltstone, cherty and fossiliferous limestone, quartzite and minor conglomerate. Local felsic volcaniclastics. (Includes the following Formations or Groups: Shublik, Otuk, Sadlerochit, Siksikpok, Lisburne, Kayak Shale, Kekiktuk

MDkn KANAYUT CONGLOMERATE AND NOATAK SANDSTONE (Upper

Devonian and Lower Mississippian ?)--Marine and nonmarine, also includes some shale.

TWICE METAMORPHOSED SEDIMENTARY AND VOLCANIC ROCKS, MIDDLE TO UPPER GREENSCHIST FACIES.

Dhf HUNT FORK SHALE (Upper Devonian)--also includes phyllite, lithic

wacke, conglomerate, sandstone, and minor fossiliferous limestone.

Dhs HUNT FORK SCHIST (Upper Devonian)--also includes biotite garnet

BEAUCOUP FORMATION.

- Dbb BLACK ROCKS (Middle or Upper Devonian and Upper Devonian)--black calcareous phyllite and thin, dark limestone.
- Dbcw CALCAREOUS CHLORITIC WACKE (Middle or Upper Devonian?)--also includes sandstone, conglomerate, limestone, and phyllite (Correlates with Dw).

includes quartzite and lenses of brown dolomite.

Dbs CONGLOMERATE (Middle or Upper Devonian).

BLACK SLATE, PHYLLITE, AND LIMESTONE

(Middle or Upper Devonian?, or older?)--also

- Dw WACKE (Middle or Upper Devonian?)--also includes some conglomerate and thin fossiliferous limestone.
- Pzw WACKE AND LIMESTONE (Devonian or older)--also includes conglomerate, schist, phyllite, sandstone, and felsic flows, plugs, and tuff.
- Pzwv VOLCANIC CONGLOMERATE (Middle or Upper Devonian?, or older?).

 Da AMBLER METAVOLCANIC ROCKS (Lower ?, Middle and Upper
- Devo man)--mafic and felsic volcanics interbedded with schist, quartzite, and marble.
- Df FELSIC METAVOLCANIC ROCKS (Devonian)--extrusive and intrusive; interbedded with metasediments.
- Dm METABASITE (Devonian and Devonian?, and Jurassic?)--locally are parts of Ambler Metavolcanics, includes both intrusive and extrusive rocks.
- Dfm METAMORPHOSED BIMODAL IGNEOUS ROCKS (Devonian and Devonian?)--interlayered felsic and mafic extrussive and intrusive rocks
- locally mixed with clastic rocks.
- Dg GRANITE GNEISS (Devonian and Devonian?).

 Dt TACTITE (Devonian?).
- Dc CHLORITIC AND CARBONATE ROCKS (Middle or Upper Devonian?)-phyllite and dolomite; also includes metasandstone, marble, and
- DSk SKAJIT LIMESTONE (Devonian and older?)--marble, dolomite, and carbonate conglomerate, locally schist.
- Dsc SILICEOUS CLASTIC ROCKS (Middle Devonian?)--includes
 metasiltstone, sandstone, phyllite, grit, and conglomerate (correlates
- with Dsg and upper part of Pzw).

 Dsg GRAYWACKE OF SILLYASHEEN MOUNTAIN (Middle Devonian).

BANDED SCHIST, PARAGNEISS, AND ORTHOGNEISS THAT MAY HAVE BEEN REGIONALLY METAMORPHOSED THREE TIMES.

PzPm METABASITE (Proterozoic or Lower Paleozoic?)--diabase and gabbro

- dikes and greenschist.

 PzPs SCHIST (Proterozoic or Lower Paleozoic?)--various types, local marble.
- PzPcs CALCAREOUS SCHIST (Proterozoic or Lower Paleozoic?)--local marble.
- Pg GRANITE GNEISS (Proterozoic?).
- Pb BANDED SCHIST (Proterozoic?)--also includes quartzite, marble, and metabasite.

BASEMENT ROCKS OF THE DOONERAK FENSTER.

- DEw WACKE (Paleozoic)--also includes meta-tuff.
- SGb BLACK SILTSTONE AND PHYLLITE (Cambrian to Silurian)--also includes minor quartzite, graywacke, metatuff, dolomite, and limestone; numerous unmapped mafic sills.
- OGv VOLCANIC ROCKS (Cambrian? and Ordovician)--andesitic to basaltic volcaniclastics with local phyllite, gabbro, diabase, and phyllite.

Base from U.S. Geological Survey Wiseman, 1956, unrevised.

Geology from Dillon and others, 1986

STREAM BASINS AND AREAS WITH GOLD PLACERS IN THE WISEMAN QUADRANGLE, BROOKS RANGE, ALASKA

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- 5. U.S. Geological Survey, Washington, DC.

Deceased.

SCALE 1:250 000

5 0 5 10 15 20 MILES

5 0 5 10 15 20 25 30 KILOMETERS

CONTOUR INTERVAL 200 FEET

NATIONAL GEODETIC VERTICAL DATUM OF 1929

This map is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.